AMENDMENT TO THE CLAIMS

- 1. (Currently amended) An apparatus, comprising:
- a heat transfer portion to receive heat from a heat source and to transfer heat from the heat source; and
- a remote heat sink adjacent to the heat transfer portion to remove heat from the heat transfer portion, the remote heat sink including:
- a solid metal portion that extends away from the heat transfer portion;[[,]] and a porous medium adjacent coupled to the solid metal portion, wherein the porous medium extends away from the solid metal portion such that a thermal boundary layer exists in substantially the entire porous medium.
- 2. (Original) The apparatus of claim 1, further comprising: a blower fan to force air toward the remote heat sink.
- 3. (Original) The apparatus of claim 2, wherein the blower fan produces a pressure differential across the remote heat sink.
- 4. (Original) The apparatus of claim 1, wherein the solid metal portion includes:

 a plurality of solid metal portions that extend away from the heat transfer portion.
- 5. (Original) The apparatus of claim 4, wherein the solid metal portions are fins.
- 6. (Original) The apparatus of claim 5, wherein the fins are substantially parallel to each other.
- 7. (Original) The apparatus of claim 5, wherein the porous medium is attached between two fins.
- 8. (Original) The apparatus of claim 7, wherein the attachment is via compression.
- 9. (Original) The apparatus of claim 7, wherein the attachment is via a thermally conductive adhesive.

- 10. (Original) The apparatus of claim 1, wherein the heat source is a processor.
- 11. (Original) The apparatus of claim 1, wherein the heat transfer portion is at least one of a heat pipe, a pumped loop, and a refrigeration loop.
- 12. (Original) The apparatus of claim 1, wherein the porous medium is a metal foam.
- 13. (Original) The apparatus of claim 1, wherein the porous medium has a porosity near ninety percent.
- 14. (Original) The apparatus of claim 1, wherein the porous medium has a pore density of five pores per inch.
- 15. (Currently amended) A method, comprising:

transferring heat from a heat source using a heat transfer device adjacent to the heat source; and

dissipating heat from the heat transfer device using a remote heat sink adjacent to the heat transfer device, the remote heat sink having:

a solid metal portion that extends away from the heat transfer portion:[[,]] and a porous medium adjacent coupled to the solid metal portion, wherein the porous medium extends away from the solid metal portion such that a thermal boundary layer exists in substantially the entire porous medium.

- 16. (Original) The method of claim 15, further comprising: using forced convection to increase the dissipation of heat.
- 17. (Currently amended) The method of claim 16, wherein the forced convection is accomplished using a blower fan operable to direct air through the porous medium such that the air enters a first side of the porous medium and exists a second and opposing side of the porous medium.

- 18. (Original) The method of claim 16, wherein the porous medium is a metal foam.
- 19. (Currently amended) A system, comprising:
 - a substrate;
 - an electronic component mounted on the substrate;
- a heat transfer device to receive heat from the electronic component and to transfer heat from the electronic component;
- a remote heat sink adjacent to the heat transfer device to remove heat from the heat transfer device, the remote heat sink including:
- a plurality of fins extending away from the heat transfer device; and a porous medium attached between the plurality of fins such that a thermal boundary layer exists in substantially the entire porous medium;
 - a blower fan to expel heated air from the system; and
- a battery adapter to provide battery power to at least one of the electronic component and the blower fan.
- 20. (Original) The electronic system of claim 19, wherein the porous medium is a metal foam.
- 21. (Original) The electronic system of claim 19, wherein the porous medium has a porosity near ninety percent.
- 22. (Original) The electronic system of claim 19, wherein the porous medium has a pore density of five pores per inch.
- 23. (Original) The electronic system of claim 19, wherein the substrate is a circuit board.
- 24. (Original) The electronic system of claim 19, wherein the electronic component is a processor.

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25. (Original) The electronic system of claim 19, wherein the electronic system is a portable computer.